



EDMONTON SECTION

Canadian Society for Civil Engineering

CSCE DINNER MEETING

Thursday April 17, 2008

A joint meeting with the Geotechnical Society of Edmonton (GSE)

“Oil Sands - Innovative Environmental Solutions”

Presented by:

**Jay Nagendran, M.Sc., P. Eng., Assistant Deputy Minister, Oil Sands
Environmental Management Division, Alberta Environment**

Abstract

Alberta's oil sands are spread over an area of approximately 140,200 square kilometers in Northern Alberta, and contain approximately 1.7 trillion barrels of bitumen in place. Over the past 15 years, oil production from the oil sands has increased from 200,000 barrels per day (bpd) to nearly 1.2 million bpd, and by 2030 production may reach 5 million bpd. The unprecedented growth of the oil sands has generated environmental awareness on local, national, and international levels. The rapid increase in production has created opportunities for ensuring environmentally sustainable production of the oil sands through innovative solutions. Solutions include scientific advances within extraction, processing and tailings management; multi-stakeholder forums; and the development of new oil sands management groups within the Government of Alberta. The Oil Sands Environmental Management Division in Alberta Environment was created to address issues and develop forward-looking policy, to further the already existing stringent legislation in place to protect the air, land, habitat and water during oil sands development.

Through these and other innovative approaches, the Government of Alberta aims to maintain Alberta's oil sands as the economic backbone for Canada, as well as an environmentally responsible leading-edge industry all Albertans can be proud of.

DINNER MEETING DETAILS

DATE: *Thursday, April 17, 2008*
LOCATION: *University of Alberta Faculty Club*

Cocktails & Registration - 5:30
Dinner - 6:30
Presentation - 7:30
Closing Remarks - 8:30

Student Members - \$10.00
Student Non-members - \$15.00
CSCE and GSE Members - \$20.00
Non-members - \$30.00

Note: The Annual General Meeting will be held during this Dinner Meeting.

Please assist us in forecasting attendance via our voice mail at 405-4757 or e-mail at info@csceedmonton.org at least two days prior to the meeting.



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Jay Nagendran, M. Sc., P. Eng.

Jay Nagendran is the Assistant Deputy Minister of the Oil Sands Environmental Management Division in Alberta Environment. He attended the University of California at Davis, graduating in Chemical Engineering in 1974. Mr. Nagendran then immigrated to Canada and began working with Alberta Environment as an Approvals Engineer in 1975. He completed a Master of Science degree in Civil/Environmental Engineering at the University of Alberta in 1980. Jay has worked in many areas of Alberta Environment, and was part of the Special Waste Management Cooperation for four years in between his assignments in the Department. Most recently, he was the Assistant Deputy Minister of Regional Services of Alberta Environment.

Mr. Nagendran has had a diverse and exciting career in the environmental field, having been a Canadian Advisor to the Indonesian government on a Canadian International Development Agency assignment, and as a member of various World Bank teams in Southeast Asia. He has been recognized for his work by receiving many awards, including the Honor Award by the American Academy of Environmental Engineers and the Professional Standards and Ethics award by the Institute of Professional Environmental Practice.

Mr. Nagendran is a registered Professional Engineer in Alberta, a board certified Environmental Engineer by the American Academy of Environmental Engineers, and a Qualified Environmental Professional with the Institute of Professional Environmental Practice. He also serves on the Senate of the University of Alberta and volunteers his time to community organizations.

Mr. Nagendran is most proud of his family, who are very involved academically and very active as well.